DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 31 • EARTHWORK

31 00 00 EARTHWORK

SECTION INCLUDES

Excavation and Fill Tree Protection Dewatering

RELATED SECTIONS

03 30 00	Concrete
07 10 00	Waterproofing and Dampproofing
07 20 00	Building Insulation and Moisture Protection
31 31 00	Soil Treatment
32 12 00	Asphalt Paving
32 90 00	Landscaping
33 00 00	Site Utilities

TECHNICAL STANDARDS

EXCAVATION AND FILL

MATERIALS

THI

For most backfill conditions, ordinary fill will do the job. Using structural fill may be excessive. Ideally, the material should be locally available. Use drainage fill at perimeter drain lines at basements.

Organic fill materials are unacceptable. Avoid fly ash as a fill material because it may leach into the water table.

DESIGN

Clearly indicate the extent of all excavation work, including:

- ☐ The quantity of ledge and boulders that can reasonably be expected to be encountered
- ☐ Ledge and boulder excavation in the open and in trenches

Include engineered profiles on the drawings to indicate the amount of excavation included in the contract.

Prepare a comprehensive list of unit prices for fill and removing ledge and unsuitable materials. Unit prices should reflect the actual cost of doing the work. Research by calling suppliers and obtaining prices for the area and the time of year, and keep a record of how unit prices are determined. Coordinate specified fill materials with unit items. Indicate that unit price work will be measured on a compacted-in-place at maximum dry density basis.

Excavation unit prices should state whether disposal of material is to a location on or off site.

When blasting is necessary to remove ledge, test comprehensively to determine the extent of material to be removed.



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EXECUTION

The Contractor must comply with all federal, state, and local codes and regulations regarding blasting.

TREE PROTECTION

DESIGN

Indicate in the contract documents the trees that are to remain and be protected.

EXECUTION

Flag and fence off trees identified to be retained. The Contractor is responsible for replacing protected trees that are damaged.

DEWATERING

DESIGN

Analyze sub-surface conditions to determine the need for dewatering. Include dewatering in the specifications if necessary.

Specify to what your expectations are, if you leave it up to the Contractor you should expect the minimum which could impact the quality of the work.



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